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Health Flammability Reactivity Other

MATERIAL SAFETY DATA SHEET

PRODUCT CLR ISSUE DATE 04/13/2006
PRODUCT CODE 101736 REVISED DATE 12/13/2006
24 Hour Emergency Number: CHEMTREC(1-800-424-9300) 3

SECTION 1 :- PRODUCT IDENTIFICATION

TRADE NAME CLR
CHEMICAL FAMILY ORGANIC MIXTURE
FORMULA Proprietary Mixture

HMIS RATING:

2 Health 1 Flammability
1 Reactivity Other

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High and 4 = Extreme)

SECTION 2 :- COMPOSITION / INFORMATION ON INGREDIENTS

MacDermid Inc. has concluded that the ingredients in this product may pose a minor hazard or slight risk under certain conditions for some individuals.

Ingredient Name	Concentration	MSDS Ref
Methacrylate monomers	Trade secret	25 - 35

SECTION 3 :- PHYSICAL DATA

DENSITY	8.340 Lb/Gl	FORM	Liquid
SPECIFIC GRAVITY	> 1.000	PH	N/A
FREEZING POINT	N/A	FLASH POINT	200.00 F / 93.3 C P.M.C.C.
VAPOR PRESSURE	Negligible at 20 C	VOLATILE %	N/A
BOILING POINT	N/A	MELTING POINT	N/A
CHEMICAL OXYGEN DEMAND (COD)	Unknown mg/l		
BIOLOGICAL OXYGEN DEMAND (BOD)	Unknown		
SOLUBILITY IN WATER	Emulsifies		
COLOR/ODOR	Clear/little to none		

NOTE: These physical properties are typical values for this product.

SECTION 4 :- FIRE AND EXPLOSION DATA

FLASH POINT 200.00 F / 93.3 C P.M.C.C.
EXTINGUISHING MEDIA Dry chemical, carbon dioxide, foam, water. As appropriate for surrounding material.
NEVER allow run-off to enter sewers or waterways.
UNUSUAL FIRE & EXPLOSION HAZARDS When heated to decomposition, toxic fumes are emitted. Wear self-contained breathing apparatus/protective clothing.

SECTION 5 :- FIRST AID DATA

EYES Flush with water for 15 minutes. Obtain medical aid immediately.

SKIN Wash contaminated skin with large amounts of soap and water. Remove and isolate contaminated clothing. If irritation develops, get medical aid.

INGESTION Rinse mouth with water. Give water to drink. Obtain medical aid.

INHALATION Remove the victim to a cool uncontaminated area. Monitor for respiratory distress.

CAUTION If unconscious - having trouble breathing - or in convulsions do not induce vomiting or give water.

Always clean contaminated clothing and gear prior to reuse. NEVER administer anything to an unconscious person.

SECTION 6 :- HEALTH EFFECTS DATA

Primary Route(s) of Exposure : Eye, Skin, Inhalation and Ingestion

EYE CONTACT (ACUTE) Direct eye contact will cause irritation.

EYE CONTACT (CHRONIC) No data available.

SKIN CONTACT (ACUTE) May cause irritation to the skin.

SKIN CONTACT (CHRONIC) Prolonged or repeated contact may cause skin sensitization to some individuals.

INGESTION (ACUTE) No data available. Swallowing may cause some nausea.

INGESTION (CHRONIC) No data available.

INHALATION (ACUTE) May cause temporary irritation to the mucous membranes.

INHALATION (CHRONIC) No data available.

SECTION 7 :- PERSONAL PROTECTIVE DATA

RESPIRATORY PROTECTION If there is a value for OSHA-PEL/ACGIH-TLV in section 13 and it is exceeded, it is recommended that a NIOSH approved respirator be used. Consult with your Industrial Hygienist for appropriate cartridge selection and use. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure demand, self contained breathing apparatus is recommended.

VENTILATION General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists or aerosols may be released.

PROTECTIVE EQUIPMENT Chemically resistant apron, boots and gloves. Recommended material of construction: nitrile, neoprene. The availability of a safety shower is recommended. If clothing is contaminated, remove clothing and thoroughly wash the affected body area. Launder contaminated clothing before reuse. Safety glasses and/or splash proof goggles, face shields and the availability of an eye wash is recommended. These are general recommendations to provide a safe

level of protection for various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility.

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SECTION 8 :- TOXICOLOGY DATA

TOXICITY STUDIES :

Toxicity studies have not been conducted on this product. However toxicity literature surveys have been conducted on the ingredient(s) in section 2. The results are as follows:

ACUTE ORAL TOXICITY No data available.

ACUTE DERMAL TOXICITY No data available.

ACUTE RESPIRATORY TOXICITY No data available.

OTHER TOXICOLOGICAL EFFECTS Multifunctional acrylate and methacrylate monomers: as a class, these esters should be considered to be eye and skin irritants as well as potential skin sensitizers, but that they present little to no acute oral or dermal absorption hazard. In vitro testing of these esters has been inconclusive in that both the multifunctional acrylates and methacrylates (as well as the simple acrylates and methacrylates) have uniformly been negative in the Ames test. Lifetime application of several methacrylate esters has not caused systemic toxicity or systemic or local tumors.

Listed as suspected carcinogen by :

IARC	NO	NTP	NO	OSHA	NO

SECTION 9 :- REACTIVITY DATA

INCOMPATIBILITY Incompatible with: strong sunlight or ultraviolet light, peroxides, and free radicals.

HAZARD DECOMPOSITION PRODUCTS Oxides of carbon and nitrogen

STABILITY Stable under recommended handling and storage conditions.

HAZARDOUS POLYMERIZATION Hazardous polymerization may occur.

SECTION 10 :- SPILLS & DISPOSAL DATA

In case of Transportation Accidents, call the following 24 hour telephone number: CHEMTREC (1-800-424-9300)

SPILL CONTROL AND RECOVERY Evacuate and ventilate area. Eliminate ignition sources. Soak up into inert absorbent material. DO NOT use sawdust or other organic materials.

Collect for disposal in a plastic recovery drum. Use non-sparking tools. Flush residue with water to chemical drain.

DISPOSAL

Incinerate or dispose of by an approved method at an approved secure facility.

Please ensure that packaging, including drums, are disposed of in a responsible manner and in accordance with federal, and your state's, solid/hazardous waste regulations. You may want to refer to www.reusablepackaging.org for further disposal guidance.

Due to more restrictive waste disposal regulations, NEVER wastatreat or dispose of material until you check your appropriate local, state, & federal regulations for requirements. Spills may REQUIRE notification to FEDERAL, STATE and/or LOCAL AUTHORITIES.

SECTION 11 :- TRANSPORTATION DATA

DOT PROPER SHIPPING NAME NON-REGULATED

HAZARD

UN/NA#

DOT REPORTABLE QUANTITY (RQ) NOT APPLICABLE **Pkg Grp**

IMO NAME RESIN MIXTURE

IMO Class/Sub Class

UN/NA# 000000

Pkg Grp

IATA NAME RESIN MIXTURE

IATA Cls/Sub Cls

UN/NA# 000000

Pkg Grp

EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT

SECTION 12 :- GENERAL STORAGE DATA

STORAGE TEMPERATURE: Maximum: 122.00°F 50°C Minimum:

Material should be stored in the properly sealed original container. Store away from direct heat or sunlight, sources of UV radiation, peroxides, or free radicals. Hazardous polymerization may occur at elevated temperatures.

SECTION 13 :- REGULATORY DATA

The following regulations apply to this product.

FEDERAL REGULATIONS

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
Based on our evaluation, the following ingredients in this product are subject to this rule:

Ingredient Name	CAS#	By Weight %	OSHA PEL	Regulatory
Methacrylate monomers	Trade	25 - 35	N/A	N/A

secret

CERCLA/SUPERFUND, 40 CFR 117, 302/304: Notification of spills of this product is not required

SARA/SUPERFUND AMENDMENTS & REAUTHORIZATION ACT OF 1986 (TITLE III)

Sections 302, 311, 312 & 313

SECTION 302: Extremely Hazardous Substances

This product does not contain ingredient(s) as listed in APPENDIX A of 40 CFR 355.

SECTIONS 311 & 312 - M.S.D.S REQUIREMENTS (40 CFR 370)

This product contains ingredient(s) that may require reporting under Hazardous Chemical Inventory Reporting

- Immediate (Acute) health hazard | Sudden release of pressure hazard
 Delayed (Chronic) health hazard | Reactive Hazard
 Fire hazard

Under Section 311, submittal of MSDS or a list of product names to the local emergency planning commission, state emergency response commission, the local fire department is required after October 17, 1987. Consult the regulation for pertinent changes and updates.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372)

This product does not contain ingredient(s) listed under 40 CFR 372.65

TOXIC SUBSTANCE CONTROL ACT (TSCA)

TOXIC SUBSTANCE CONTROL ACT (TSCA): The chemical ingredient(s) in this product are listed on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION & RECOVERY ACT (RCRA), 40 CFR 261 SUBPARTS C & D

Please refer to section 10, disposal information for pertinent data.

TOTAL TOXIC ORGANICS

This product does not contain ingredient(s) on the list of Total Toxic Organics.

OSHA PROCESS SAFETY (1910.119)

This product does not contain ingredient(s) listed in APPENDIX A of 29 CFR 1910.119 of Highly Hazardous Chemicals, Toxics, and Reactives of OSHA process safety management.

CLEAN AIR ACT

This product does not contain ingredient(s) listed on the Hazardous Air Pollutants of CAA 40 CFR 112(G).

OZONE DEPLETING SUBSTANCES

This product does not contain ingredient(s) listed on Ozone Depleting Substances of CAA 40 CFR 82.

STATE REGULATIONS

CALIFORNIA PROPOSITION 65

This product does not contain ingredient(s) listed on California Prop 65 suspected carcinogen/reproductive toxicant list.

MICHIGAN CRITICAL MATERIALS

This product does not contain ingredient(s) listed on the Michigan Critical Material Register.

The information listed above does not include all Federal, State, and International regulations. The regulations listed above may change from time to time; it is the users responsibility to keep advised of current regulatory requirements.

Prepared by MacDermid Inc. Safety & Regulatory Compliance Department, based upon publicly available reference information.

SECTION 14 :- USER NOTIFICATION

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HERE UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.

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